

Team Member's Names: Lily and Emma

School: Mount Vernon Middle School, Mount Vernon, IA

Teacher: Mrs. Searce

Proposal:

1. The name and/or description of your chosen ice feature

Lima says that it's a lake about 2 mi long between Lake Chad and Canada Glacier in Taylor Valley, Victoria Land. Named by the 8th VUWAE, 1963-64, for physicist R.A. Hoare, a member of VUWAE that examined lakes in Taylor, Wright, and Victoria Valleys.

2. An image of your chosen ice feature



3. The location of your selected feature in terms of its longitude and latitude as well as the region of Antarctica in which it exists. (Teams are encouraged to include a map of Antarctica with a mark pinpointing the location of their selected feature).

**Latitude – 77.6333333      Longitude 162.85**



4. A paragraph explaining why your chosen ice feature is scientifically interesting.

It's a long lake that looks like it goes down into a frozen waterfall. The blue ice shows us that it has been melted and frozen multiple times. We think it is scientifically interesting because it might be a predictor of global warming.

5. A paragraph hypothesizing what geologic processes you think are occurring to create this ice feature.

We think that this lake was formed from melt water from the surrounding glaciers. Since it's in Wright valley not much precipitation falls. We are curious about the results of water testing like pH and salinity and if the lake level is constant.

6. A paragraph asserting why you and your team should be funded to further investigate this area of Antarctica. (In other words, what are the potential benefits of exploring this feature?)

We think that we should be funded to investigate this Antarctic feature because we think it is really interesting and we would like to find out if it has been totally refrozen or if there is some liquid water at times. We would like to know if there really is a frozen water fall leading off at the end of the lake.

We would also like to know if the lake has fresh or salt water.